

Meeting Notice

This month's meeting will be held at our normal meeting location, Grace Presbyterian Church, 2100 Tice Valley Blvd., Walnut Creek, on June 15th at 8:00 PM.

The guest speaker for the meeting on June 15th will be Mr. Bill Mumford, W2CU. Are you interested in a different 80-40 Meter Antenna? If so, you should attend. See Page 5 for more details.

Please, No Smoking inside the Church

Field Day - June 23 and 24



Award Winning

the CARRIER.....

Published Monthly by the Mount Diablo Amateur Radio Club

MDARC FIELD DAY CALL W6CX; 2M REPEATER WR6AHK; 220 REPEATER WR6ARG; MEMORIAL CALL SIGN W6LGW					
VOLUME XXVII			June 1979		No. 6
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Secretary.....WB6FOA	Salley Nikkel	778 Harvard Dr	Pleasant Hill	94523	unlisted
Treasurer.....WA6OJT	Dick Webster	3415 Sweet Dr	Lafayette	94549	284-2046
Emergency Coordin'trW6LKE	Dwayne Eskridge	Box 5502	Walnut Creek	94596	932-3971
Board Member.....W6PFW	Ted Durst	9 San Ardo Ct	Walnut Creek	94598	937-1463
Board Member.....WD6APL	Joe Campbell	3215 Caravelle Ct	Walnut Creek	94598	939-6567
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Deadline for next Issue: Articles by June 27th, Want Ads by June 30th
Next Board Meeting at QTH of Hank, W6AMH June 18th at 8:00 PM

MINUTES OF

MDARC GENERAL MEETING MAY 18, 1979

Meeting was called to order by the Vice President Chuck Welch, WA6MWU in the absence of President Hank W6AMH who is ill. The club members Signed names and calls to a very nice big card made by the little daughter of Joe Campbell, WD6APL.

Minutes of the previous club meeting were approved and accepted.

W6CU, Hal, announced his brother will speak to us at the next meeting.

Treasurer's Report: \$706.17 savings, \$969.72 checking and all bills are paid.

W6LKE reported information on Armed Forces Day also June 3rd a boat display by the Coast Guard and our club has been invited to set up a display and possibly invite the public to send messages from Sun Valley Shopping center.

Bob Young asked that all articles to be in the Carrier be in early.

Field Day: will be QRP operation and bike power to keep batteries up. We hope to have Mt. Diablo for this operation.

Dick, WA6ODA gave a report on the repeater meeting, and that once again Phone-patch will be in use.

TVI: Joe, K6VLH reports all is well.

Membership: Dick, WA6OJT reported we have 278 paid members.

A number of first time visitors were introduced also a few up-grades. We had two visitors from Fresno, K6KDM and WB6ITM.

Education Committee: Radio school will start at College Park in September.

Meeting adjourned for coffee at 8:45 and Chuck called all to order about 9:15.

Salley WB6FOA introduced our guest speaker Wilbur Bachman, W6BIP and his "YL" Elsie, WA6GQC. Bip's presentation on Radio Frequency interference in stereos and Hi-Fi was very interesting and enlightening.

Prize drawing followed then meeting adjourned.

Respectfully submitted

Salley Nikkel WB6OFA
Secretary

MINUTES OF

ROCKY RIDGE REPEATER GROUP MEETING,
MAY 16th.

Meeting was called to order at 8:05 PM.

Treasurer's Report: Balance \$950, uncommitted \$400.

Anti-Jamming Committee reported that jamming had subsided on 2M since the new control deck made it more difficult to change modes illegally. The additional time required was sufficient to get a DF fix and the jammer knew it. Funds to build several DF units were left in the budget instead of buying a single expensive unit.

MMSP to turn on the 2M phone patch again for emergency use as before. It will remain on unless malicious interference forces the group to suspend one of its more important public services.

W6LKE made some suggestions to help emergency operations on the repeater and thanked the group for help during several public service events.

Parky thanked the group for help during the Mount Diablo Trail Ride. Good use was made of both the Club repeaters.

There was much discussion concerning the shared use of the K6POU repeater on the WR6AHK frequency. Since the owners of the K6POU repeater weren't participating in either the steering committee or regular group meetings there was much concern over the RRRG's best interests. A motion passed for the steering committee to draft a letter of understanding with the K6POU group that was agreeable with all parties in order for the shared frequency use to continue. The group discussed several points it wanted to see in the letter.

It was discussed whether or not W6HOF was voted in as a member of the steering committee. A motion passed to maintain the steering committee at the original 7 member size that was voted into office at the last election in December.

MMSP to maintain the dues at \$5 for the next quarter and the meeting was adjourned.

Respectfully submitted

Don Gilley WB6VHW

MINUTES OF

MDARC BOARD MEETING OF MAY 21, 1979

Board met at QTH of Cynthia and Dick Webster in Lafayette.

Vice-President Chuch Welch, WA6MWU called the board to order at 7:57 PM. President Hank W6AMH was ill and unable to attend.

Board members present: WA6OJT, WB6FOA, W6LKE, and WD6APL. Club members present: WA6AEG, W6CU, K6IMV, WA6JIF, W6KLM and daughter Carol, KC6F, WB6OFH, and K6XC.

Minutes were approved as in Carrier.

Treasurer's Report: Same as Club meeting report with the addition of \$50 received from the prize committee loan.

W2CU will be the speaker at June club meeting.

W6LKE reported that WA6ODA made and presented to the club some very attractive cards printed to use for Public Service.

The Board decided to take no action on the Memorial Station at this time. Will be taken up at next meeting.

MMSP to hold board meeting the following meeting after the regular club meeting.

Joe, WD6APL, will contact AI6V and get figures on antenna size and heights to report next meeting.. This information to be presented to the County Planning Commission on antenna ordinance.

Door Prize Committee K6XC Ron reported; \$127.88 before prize purchase for club May 18th, \$61.75 spent on prizes, \$66.13 balance. Paid back to club the \$50 loan leaving \$16.13. Received from ticket sales at club May 18th \$50. Total on hand \$66.13.

MMSP that the club pay \$4.00 to Amateur Radio News for the Carrier editor, Bob Young, KC6F dues for the year.

Repeater: Phone patch had to be turned off again due to abuse.

From now on all Board Meetings are to start at Eight o'clock unless the Board decides differently.

Club history is being worked on.

MMSP to adjourn at 10:15 PM.

Thank you Dick and Cynthia for our evening.

Respectfully submitted
Salley Nikkel, WB6FOA
Secretary

RUN FOR LIFE MARATHON

Under the direction of Emergency Coordinator Dwayne Eskridge, W6LKE, Emergency Communications were provided the American Heart Association sponsored "Run for Life" at the Concord Pavilion on May 19. Participating were Dwayne; Doug Lortsher W6KLM and daughter Carol; Bob Young KC6F; Dick Brown, WA6YXY; Chuck Welch, WA6MWU; Dave Greenhill, WA6OFI; Joe Campbell, WD6APL; Scott Miles, WB6PQM; and Dick Thomas, WA6ODA and YL Florence.

Although only a five mile course from the Concord Pavilion the approximately 300 participants in the run were monitored through the course by mobiles stationed at each mile post and an operator supplied for the Red Cross Van, the control station at start and finish and a pick-up vehicle for drop-outs. Thanks to Dave for filling in as pickup operator in his pickup.

The format of this exercise is similar to many of the bike-athons and other events and is a way we can render Public Service as well as having a fun-day.

Next time Dwayne asks for volunteers treat yourself to a pleasant time and join us.

WA6ODA

* * * * *

EMERGENCY PHONE PATCH PROCEDURE

1. Announce calls and intent to access patch for emergency purposes.
2. Access patch by touch tone code.
3. When dial tone is heard dial emergency number.
4. (Patch will stay up even though you unkey)
5. Give message to emergency dispatcher *
6. Stay on air until emergency dispatcher clears or emergency is resolved.
7. Terminate patch with off code and then announce end of emergency traffic.

The procedure is the same whether handled by a mobile alone or with the assistance of stationary operator.

* When assisting, the stationary operator drops out and the mobile operator assumes communication with

continued on page 5

The President's Corner

Many, many thanks to you all. The support I have received from the MDARC membership during my illness has been a large factor in my return to strength. The club certainly rallies to a member in need. The card signed by all the attendees at the last meeting was especially thoughtful and so well received. The terarium delivered by Sally and Ted, a beautiful thought and affording a fine visit, however, Sally's comment, "It belongs in the Ham Shack where there is a lot of hot air to keep it alive and well." I'm still pondering that one.

Again, my heartfelt thanks to each and every one of you. You certainly helped speed my recovery, believe me, the calls, cards, contacts, visits, were certainly effective medicine.

With time on my hands I had ample opportunity to operate WR6AHK during the weekdays, time usually spent trying to earn a living.

Some observations. Too many quick mike button thumbs, including by own. Difficult for people to break in during times the repeater is under group QSO type conditions. Suggest we let squelch tail drop and count to three or whatever, in any event make a conscious effort to allow a gap between 'overs'. I don't feel complete station identification is necessary during each 'over' either. Sounds ridiculous and is time consuming when there are four stations with calls of interminable length.

After establishing contact on a repeater frequency, if within range, a simplex frequency could always be utilized to continue.

Certainly during an emergency call all stations other than those involved should stand by and be silent. Chuck, WA6MWU, was relaying a stalled auto report to the CHP and was unable to break us one afternoon to respond to the stallee -- My face was red, along with others I'm sure.

Plans for the preparation of the 1980 MDARC Directory are already underway. A suggested innovation for the coming year is the inclusion of each member's picture along with name and call in addition to what you have received in the past. Certainly, only those visages will be included whose owners have given permission. Who knows, you may be hiding a secret past.

Now for the kicker, costs will necessarily go up, even though we are getting everything at rock-bottom prices. We may have to ask each member for 50 cents per directory to defray additional costs. ($\frac{1}{2}$ gal gas). Please think about it and we will discuss the subject at the upcoming meeting.

c u there

Hank

* * * * *

KUDO COLUMN

Dick, WA6ODA. Wonder how many of us realize the time and devotion he puts to WR6AHK? He keeps the machine up for us casual users during the day and monitors it almost continually to ensure proper operation. He seems always available to dial up the phone patch in an emergency or complete a phone call upon request. His calm approach and even disposition can't help but improve the operating habits of some of us more careless users of the machine.

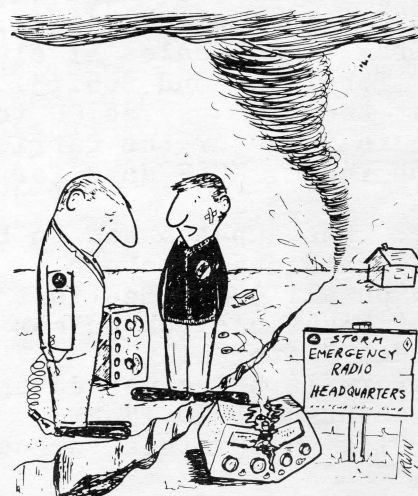
* * * * *

* One of the main door prizes this

* meeting will be an electronic

* keyer.

* * * * *



"What do you think, Parky?"
 "Well, Dwayne, if you have a dime,
 I'll see if the phones are working."

Emergency Patch .. continued

dispatcher at 5. announcing that he is a mobile amateur station followed by the nature of the emergency, its location, direction and aid needed.

Dwayne, W6LKE would like us to continue use of 228-8282 when possible, especially if the jurisdiction is in doubt. He would also appreciate information as to time and date of a breakdown in communications.

For Reference, the following numbers are listed:

CHP, 8-5 685-2171 (contra costa)
24 hours 658-9111 (Oakland dispatcher) - other Bay area or out of Contra Costa

Concord PD - 671-7133

WCPD - 935-6400

Coast Guard Search and Rescue -
556-5500 (can be called collect thru operator)

WA6ODA

Editor's note: All types of assistance is available 24 hours a day at telephone 228-8282. This should be used primarily.

CONCORD - SINCE 1970

CIRCLE "R" PHOTOGRAPHERS - STUDIO

• ON LOCATION • • IN STUDIO •

WEDDINGS IN OR OUTDOORS
PORTRAITS

FORMAL - CASUAL
AVAILABLE LIGHT - CANDLELIGHT - MISTYS
A DEPOSIT RESERVES THE DATE & TIME
WEDDING ACCES - INVITATION - FRAMES
FAMILY - GROUPS - CHILDREN - DOGS - PETS
SCHOOLS - GRADUATIONS - PROMS - BAR MIZVAH
RESTORATION - COPY WORK - HORSES
LODGES - GOLF TOURNAMENTS
ALBUM PLANS - HOME PORTRAIT SERVICE

PASSPORTS & ID'S - ALL TYPES
BUSINESS CARD PHOTO & PHOTO STAMPS
SHOT DAILY CUSTOM DARKROOM ENLARGEMENTS - REDUCTIONS

COMMERCIAL PHOTOGRAPHY			
PRODUCT REAL ESTATE PATENT PHOTO ELECTRONICS TRANSPARENCIES CONSTRUCTION - PROGRESS	INDUSTRIAL MACHINERY PROGRESS TECHNICAL INSURANCE CORRECTIONAL & ARCHITECTURAL	BUSINESS PUBLICITY PROMOTIONS DISPLAYS BROCHURES BLUE PRINTS COPY WORK	ADVERTISING COMMERCIAL REPRODUCTIONS ILLUSTRATIONS CHARTS & GRAPHS CATALOG LEGAL

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APPOINTMENTS MADE FOR DAYS -
EVENINGS - WEEKENDS

GEORGE & BERTHA ROUSH
DAY OR NIGHT
682-7521

2116 ATHENE DR.
CONCORD

Guest Speaker

Bill Mumford, W2CU, will discuss a special 80-40 Meter antenna, microwave radiation hazards, and spark-gap transmitters.

Bill received his first amateur license in 1916. His interest in ham radio led to a career in electronics beginning with a degree from Willamette University in 1930. He has done research and made inventions in radio including UHF and microwave. He has served as a professor in Electrical Engineering at U.C. and at the University of Wisconsin. In 1968 he was co-author of the book "Noise Performance Factors in Communication Systems".

Ham Radio Outlet

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(415) 342-5757

Hours: 10 AM to 5:30 PM Monday-Saturday

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NEW STORE NEW STORE NEW STORE

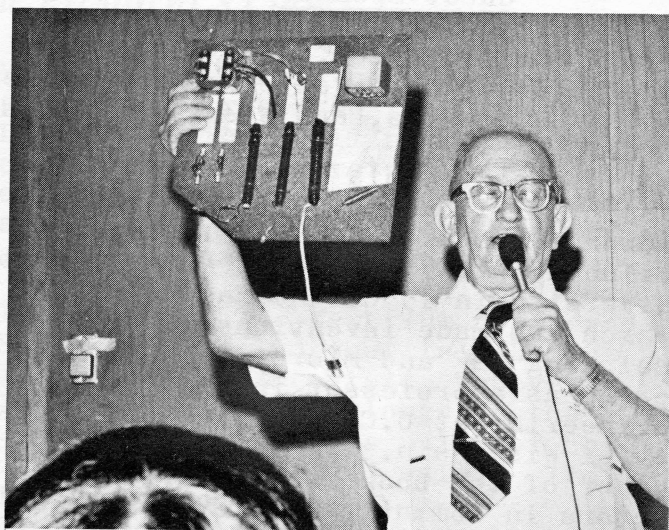
Stop by our new
OAKLAND LOCATION
at 2811 Telegraph Avenue

And Say Hello To

RUSS WA6AVS
and
BUD WA6HYN

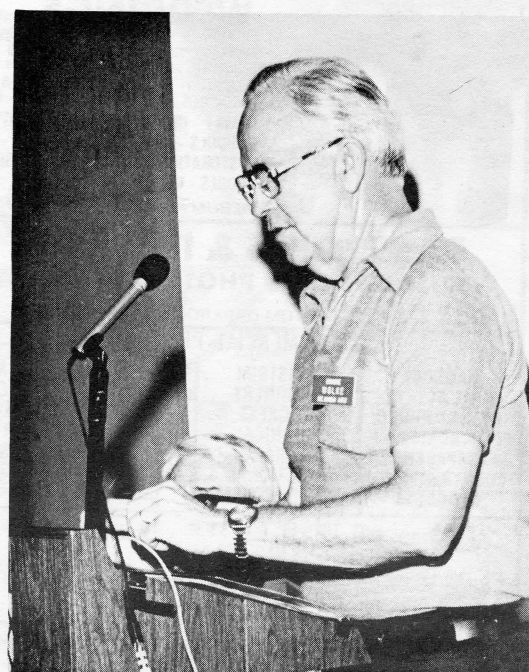
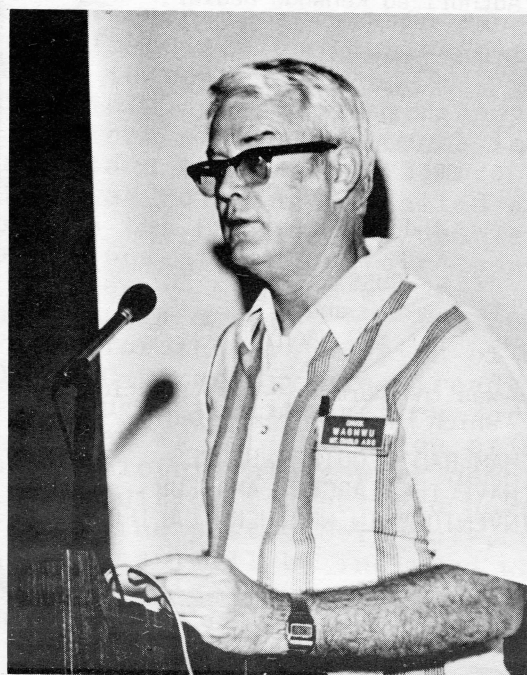
This was the former M-TRON location
which has been remodeled

HAM RADIO OUTLET STORES
HAVE THE LARGEST AMATEUR
RADIO INVENTORY IN NORTHERN CALIFORNIA



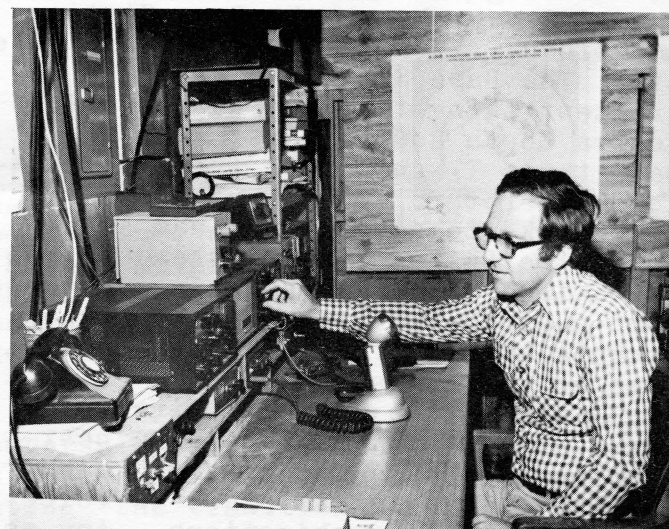
OUR GUEST SPEAKER - WILBUR "BIP" BACHMAN, WB6BIP.

M.D.A.R.C. MAY GENERAL MEMBERSHIP MEETING.

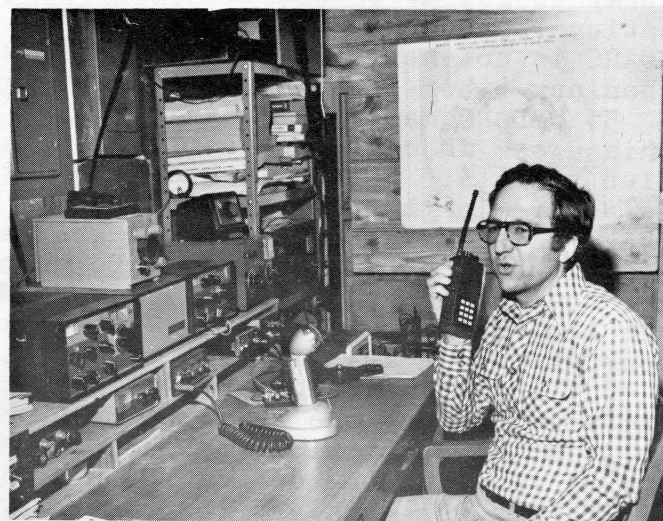




MOTORCYCLE MOBILE - ROGER, WD6CLZ.



STATION OF THE MONTH - DICK, WA6OJT.



Letters To The Editor

June 1, 1979

As a new member in the MDARC, I find the letters and comments about the club's operation to be asinine. Also a waste of good space in the "Carrier".

It seems that all the complaints center around the repeater group, Base Station, and the board of Directors.

1. My opinion about the Repeater Group is that it should be separate from the MDARC, but should be sponsored by the MDARC, as should any other group started by the membership. These groups would report to the MDARC.

2. As to the Base Station, I have seen only two or three photos of their tee shirts in the last three issues of the "Carrier". Perhaps those who object should buy tee shirts with MDARC. As to prizes, any business has the right to donate them, but how many do? Why knock the Base Station donations, after all it is a tax write off. The Base Station may not be the greatest thing that has happened to Contra Costa County hams. At the same time, I would rate the Base Station higher than zip-lok bags. I would like to see several ham stores in Contra Costa County instead of one in Oakland. Who has a chain in Oakland and other cities in California. Perhaps some of you like a monopoly, same as gas lines.

3. As to the Board of Directors. How many of you have run for a position on the board, or attended a board meeting? That is the place to voice your opinions and objections. Any ass can bray in public or in a paper.

4. Any club or organization is lucky to get more than 10% participation in socials and activities. MDARC is not having any more problems than any other group.

5. MDARC membership limitations. This dream is a good way to blow a club to bits. Sure some hams are not as active in the Club as others. These hams are active in other groups and clubs, the same as I am. Being a ham does not mean one has to live and die beating a key. Although there are some who would fall in this category.

6. When I joined the MDARC, I do not remember any one twisting my arm to join. I doubt if it has happened to any of you. When I decide to quit MDARC, I shall walk out the same way

I walked in. Any of you who are dissatisfied should do the same. I am sure there is someone who would fill your place. He or she would probably be of more help too.

Sincerely

Roy M. Estep WA6FHF

* * * * *

The above letter appears to refer to another letter that appeared in the most recent issue of "The Carrier". Concerning the reference to the repeater group in the above letter, it would appear that the repeater group is already organized as the letter suggests.

Bob Young, Editor

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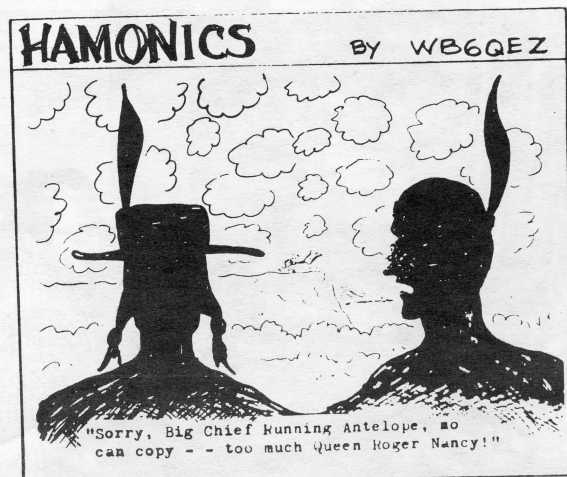
Anyone interested in getting your station in "The Carrier" may contact the Club Photographer, George Roush, WB6OFH, if you need photographs of your station. He can be reached at 687-0912. If you already have photographs, get them to me. When space permits, I might then be able to get a short article on your station in "The Carrier".

Editor

* * * * *

Three Club members have qualified for the Triple-CU QSL card recently. They were: Doug W6KLM, Don WB6TEE, and myself, KC6F. If you are interested in qualifying for this unique QSL card, contact Parky, K6IMV.

Editor



From "The Call Letter" - Poway ARS

MOUNT DIABLO TECH FORUM

The Mount Diablo Tech Forum is being reestablished. It will meet at 29.130 MHZ on upper side band each Monday at 8:00 PM local time. The first meeting will be May 18th. Initial discussions will be on microprocessors and digital electronics. Discussions will proceed from here into whatever areas may interest the group.

Primary net control will be Dana, WA6ZGB. Each and every one is invited to check in.

Dana, WA6ZGB

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NOVICE TRAFFIC NET

A traffic net is being established at 7145KHZ plus or minus QRM. The net will meet each Wednesday at 8:00 PM local time. The first meeting will be Wednesday, June 20th. Kent, WA6ZFY, will be net control and will be operating from the QTH of Dana, WA6ZGB. The purpose of the net is to give novice operators practice in traffic handling and in copying code.

Everyone is invited, novice or not, to join in. For more details, contact Dana, WA6ZGB.

Dana, WA6ZGB

* * * * *

Congratulations to Dick, WD6FFJ, who recently passed his advanced license test.

* * * * *

Congratulations to Manuel Espinole, who recently received his Novice license. His call is KA6FOC.

* * * * *

AMATEUR RADIO WAS ATTACKED as "one of the main non-ionizing radiation hazards in the United States" at an April 9-10 meeting of the Subcommittee on Public Health Aspects of Energy, in New York. The group is an arm the New York Academy of Medicine's Committee on Public Health, reports K6YB, who has an article on the effects of Amateur RF radiation on family and neighbors coming out in Ham Radio magazine later this year. (HRR 253)

CLUB VP TO VISIT NETHERLANDS

Chuck Welch, WA6MWU, will be in the Netherlands from June 4th through June 15th. He will be operating on 15 and 20 meters using a vertical on the roof of the Holiday Inn where he will be staying. Chuck plans to keep the following schedule when time permits:

<u>Time</u>	<u>Frequency</u>
1730Z	21445 KHZ
1735Z	14225 KHZ
1740Z	21445 KHZ
0500Z	14345 KHZ

Chuck will often not be able to be operating so if you don't hear him on one day, try him the next. Also, listen for Dave, PAORE, who will very likely be helping Chuck.

Dwayne, W6LKE, will act as net control when he can fit it into his schedule.

Please join in if you can.

Bob Young, KC6F

* * * * *

FCC's NEW CALLSIGN STRUCTURE was reaffirmed by Commission action last week, when the Commissioners dismissed a number of petitions -- including ARRL's -- that had asked that the controversial callsign system be reconsidered. (HRR 251)

CW ENTHUSIASTS SHOULD consider membership in the Morse Telegraph Club, an organization dedicated to perpetuating "the traditions of the Telegraph profession." Dues are only \$3 a year, which includes a quarterly newsletter, and membership is open to anyone with a knowledge of Morse or International code. Write Morse Telegraph Club, Inc., 712 S. 49th St., Lincoln, NE, 68510 for details -- the group meets on the air around 7060 at 1830Z and 0100Z daily. Thanks K9ZZ, Marcogram. (HRR 251)

"AMATEUR UPGRADE," a new game designed for up to four players, familiarizes participants with FCC rules and elementary radio concepts. Included are a playing board, examination cards, a question and answer package. The price is \$9.95 from Kantronics, 1202 E. 25rd St., Lawrence, KS 66044 or The Ham Radio Bookstore. (HRR 252)

Ni-Cad Battery Rejuvenator

I recently made a purchase from Quest Electronics in San Jose. They had a Ni-Cad Battery Rejuvenator Kit available and being a Wilson owner with approximately 10 shorted or dead AA Ni-Cads laying around I purchased the kit.

This kit will ZAP/CHARGE all AA, A, C, or D size Ni-Cads of 1.2 volts DC capacity. Most cell failures are the result of neglect or improper operation. To prevent Ni-Cad failure exercise the cells every 30 days. Run them until they are unable to provide enough voltage to function, then fully recharge them. Never leave them turned on beyond the point where the voltage is insufficient to operate the device in which they are used.

Ni-Cads generally fail in one of four ways: 1. Develop a short. 2. Reverse polarity. 3. Develop a memory. 4. Die completely. The first three are generally reversible. A short can be checked with a Volt-Ohm meter. If the cell shows zero volts, try measuring its resistance. A short will show near zero ohms resistance in either polarity. A cell will often reverse its polarity. This can be seen easily with a voltmeter. The memory problem is less common and harder to detect. The symptoms are reduced capacity (shortened run life) and moderately decreased load voltage when fully charged.

The Rejuvenator is made up of a high wattage resistor, a computer grade electrolytic capacitor, four diodes, one push button switch, one SPST switch and one transformer. The purchaser must purchase his own Mini-Box and if desired, a DC meter.

The charger will provide 75 to 100 milliamperes of charge current. This value is safe for most cells of 1.2 volts capacity. Charge time will be about five hours. The procedure for repairing shorts and memory problems is as follows. The battery is inserted in the rejuvenator and is plugged in. The Zap button is pushed and held for about one minute. This impresses approximately 32 volts across the battery. Wait about 1 minute and push the Zap button again. With the Zap button depressed read the voltmeter. If no voltage is indicated keep zapping the battery until you can see some voltage from the cell. Continue zapping to get a higher voltage each time the zap is

done. You can hold the Zap switch down for a few seconds each time after the voltage reaches one volt before trying another zap. When the cell voltage reaches 1.2 volts, watch the voltmeter when the zap switch is released. If the voltage sinks rapidly you still have a short so keep zapping. When the cell will stay up at about 1.2 volts you may place the rejuvenator in the charge position and charge the cell. It may take 20 to 30 zaps to reach this point. If you cannot get the voltage to stay above 1 volt, the cell is dead.

Reverse polarity cells must have their polarity corrected first. Hook the negative end to the positive end with a short length of wire for 1 to 2 minutes. Now check polarity again. If it is still reversed try twice again and then proceed with the rejuvenation process.

Memory problems just need their memory changed. Short out this cell through a flashlight bulb until the bulb just goes out. Then completely recharge the cell. This may have to be done more than once.

I have had 10 bad Ni-Cads in my shack. So far I have been able to cure and charge 8 out of the 10 Ni-Cads. They have held their full charge for 1 week so far where before they would not hold their charge for more than a few hours. I am still working on the remaining two.

Anyone interested in this Ni-Cad Battery Rejuvenator and Charger may purchase it through:

Quest Electronics, PO Box 4430M, Santa Clara, CA 95054. Telephone (408) 988-1640. The price is \$7.25 plus tax.

Jay D. Caldis
WB6PUA



"Not Yiddish, you lid! British!! Bravo,
Romeo, India..."

WANT ADS WANT ADS WANT ADS

For Sale:

18APV High Gain Vertical Antenna,
80 through 10 meters - \$40
GE progress line 25 watt two meter
mobile xcvr with xtals for AHK and
52 simplex (5 channel) - \$45
Phone WA60JT at 284-2046

FT221R 2 meter AM, FM, CW, SSB
transceiver - \$350
NC-303 General Ham Receiver
excellent condition - \$175
Classic SX-28 Runs Good
general coverage receiver - \$60
H.V. Pwr Supply 4KV @ 500 ma
solid state Hmbrew but pro-looking
for 19" Rack - \$150
Call Roger Yocum WD6CLZ @ 687-6326

GE Pre-Prog 4ER9A1 Rcvr and 4ETIC3
XMTR 50 watt 117 VAC, Rack Mounng
on 146.52 - \$55.00 the pair.
Motorola Twin-v 10 watt mobile on
WA6WVH/RPT with cable, head & mic
only \$45
30 watt twin-v less accessories-\$15
Hallicrafters SX100 Genl. Coverage
rcvr, needs major alignment- \$50
Link 1905 RCVR on PHPD 155.31 needs
work \$5.
Call Doug Smith, WA6GON, 686-3336

Hallicrafters Communications Receiver
Model SX-28; Good condition with
Service manual - \$150 or offer
672-0714 after 5:00 PM

THE BASE STATION

SUMMER SALE

"Never Before Prices"

ATLAS 210 X/NB 80-10 xcvr
Reg. \$810.00 \$161.00 OFF

Sale Price \$649.00

ALDA 103A 80-40-15 m xcvr
Reg. \$495.00 \$100.00 OFF

Sale Price \$395.00

MOSLEY TA-33 JR. Tri Band Beam
Reg. \$197.00

Sale Price \$167.00

MOSLEY TA-33 SR. Tri Band Beam
Reg. \$264.00

Sale Price \$219.00

HUSTLER 5 BTV Vertical Antenna
Reg. \$134.95

Sale Price \$99.95

DSI 3550 Frequency Counters
In Stock - No Waiting - \$149.95

Commodore PET Microcomputers
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Mini-boxes, Connectors, wire,
Multiple outlet strips and all
sorts of goodies on our special
Clearance Racks.
33 1/3 % off all prices.

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SHOP IN CONCORD

The Base Station

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This Month's Cryptogram

In a puzzle-type cryptogram each letter represents a different letter. To solve a cryptogram you must determine which letters the various cryptogram "letters" represent.

A bit of philosophy: "X Y Z O Z T D
 S O M U C H G O O D I N T H E
 D E G I N Y B E E P T R X Y Z
 W O R S T O F U S A N D S O
 H E O D X E M I D Q R P D E
 M U C H B A D I N T H E B E S T
 G I N Y W Q P T R X Y Z W Z D X
 O F U S I T ' S R A T H E R
 E M I D , T X ' D O Q X Y Z O
 H A R D T O T E L L W H I C H
 Y Q O P X E X Z A A H Y T N Y
 O F U S O U G H T T O
 E M I D E I B Y X X E
 R E F O R M T H E R E S T O F
 O Z M E O G X Y Z O Z D X E M
 U S
 I D.

Last Month's solution

Advice on a "get-well" card: "Take that thermometer out of your mouth! You don't know where it's been."

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